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9 November 1956

P-144A

MEMORANDUM FOR: THE RECORD

SUBJECT: Trip Report, [REDACTED]

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1. On 7 November, the undersigned visited the [REDACTED] for the purposes of eliciting 2 proposals for the design and development of audio surveillance receivers.

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2. The 20-100 mc receiver was discussed and this Division's requirements for the item were set forth. In addition to the Signal Corps specifications, the following points were raised:

- a. A six months spare parts package was desired.
- b. 12 units will be delivered - on a two plus 10 basis.
- c. Full production drawings and specifications will be prepared.
- d. Separate line power supply will be designed and constructed for each of the receivers.
- e. A canvas carrying case will be designed and constructed for each of the units.
- f. Recommendations as to the particular antenna or antennas will be provided.

[REDACTED] Will prepare a proposal for the above program within the next 2 weeks. It will be based on a high speed effort designed to get the receivers built, tested and delivered in as short a time as is consistent with good engineering practice.

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3. The VHF receiver development program was discussed and APD requirements laid on. In general, it was decided that the receiver would perform under the same environmental conditions as the HF discussed above. However, since this is a basic development program rather than a production prototype program, additional features were insisted upon. They include as design objectives:

- a. The broadest possible frequency coverage consistent with tube and component performance. A minimum coverage of from 100 to 175 mc.

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b. Incorporation of a bandwidth limiting switch on the unit which will be designed to provide a narrow bandwidth channel for use in AM reception. When in the FM reception mode, the receiver will utilize its normal 80 kc bandwidth IF channel.

c. Line power supply the same as the power supply for the HF receiver.

d. Briefcase form factor.

[] will prepare a proposal based on the above covering the design, development, and construction of 12 such units. This proposal will most probably be received after the HF proposal due to time limitations.

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4. Work is progressing quite satisfactorily on the power line carrier system. At present, component delivery is 85% complete and construction of the first pre-production prototype has commenced. It is planned to run electrical and mechanical tests on this first prototype early in December, with the undersigned present. Should these tests prove the unit meets specifications, the drawings will be released for production of the full 80 units. Lead time on some of the circuit components being what it is, it is not anticipated that actual construction will begin before 1 January 1957. Allowing 2 weeks for the construction and an additional week for tests and evaluation at the contractor's facility, it is planned to deliver the equipments to the Agency by the beginning of the 4th week in January, 1957. Attached to this report are the tentative mechanical specifications for the carrier current system.

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